175°
Ultrawide angle

Dynamic
HD recording

Glass-lens

14.0 Megapixel

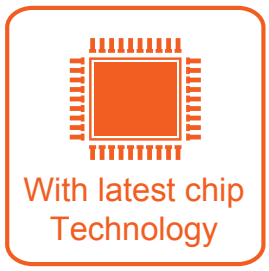
digital zooming

Waterproof housing
and lens-protected
design

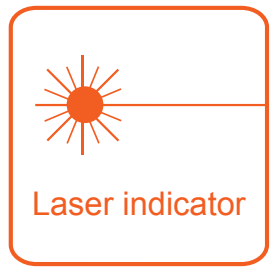
Camera with installation
interfaces housing-free
light and convenient

Cyclic recording

Synchro
Shot Function



With latest chip
Technology



Laser indicator

Remote controller
with back clips and
binding interfaces

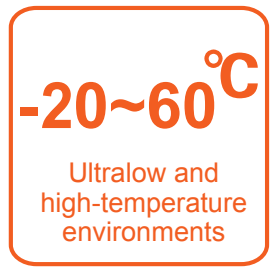
Automatic and
continuous
shooting

Low-lux shooting

HD output
interfaces

Built-in dual-microphone
recording and external
microphones

Maximum capacity
expansion



Ultralow and
high-temperature
environments

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When using the Rollei 5S video camera, adhere to the following precautions:

1. Do not drop, knock or shake the video camera.
2. Do not put the video camera close to an object that generates strong magnetic field, such as a magnet or a motor. Do not put the video camera close to an object that emits powerful radio waves, for example, an antenna. Strong magnetic field may cause faults on the video camera or damage the image / voice data.
3. Do not expose the video camera to high temperature or direct sunshine.
4. Do not put the memory card close to an object that generates strong magnetic field, such as a television set, a speaker, or a magnet. Do not put the memory card in a place where static electricity is easily generated.
5. Stop recharging the battery immediately when over heat, smoke, or peculiar smell occurs during recharging.
6. Keep the video camera out of reach of children during recharging, because the power cable may cause asphyxia or electrical shock on children.
7. Store the video camera in a cool, dry, and dust-free place.

Preface

Thank you for purchasing Rollei 5S series compact high-definition (HD) digital video camera, which has the following characteristics: Ultra small size and integrated structure / User-friendly interfaces / Easy operations / Hand-free shooting to facilitate shooting of real scenarios at any time and place / Superior recording performance thanks to dynamic HD shooting technologies, providing you with exciting video shooting experience

This manual describes how to install and use the Rollei 5S video camera. It also provides information about use, operations, installation precautions, and technical specifications of the Rollei 5S video camera. Before using the Rollei 5S video camera, read and understand this manual carefully and keep it properly for future use. Designed to meet the professional requirements, the Rollei 5S video camera will serve you in a long term.

Warranty

This product has been certified by certification bodies for compliance with related safety regulations and specifications issued by the federal communications commission (FCC) and council of Europe (CE).

Overview

The Rollei 5S video camera is a compact high-end HD digital camera intended for professional applications. It provides the following functions: Performs industry-leading HD digital shooting / Stores voice data / Displays images in real time / Performs video recording / Takes pictures / Displays time / Provides laser indication / Performs wireless remote control / Performs 10X digital zooming / Connects to an external special-purpose microphone / Performs USB 2.0 high-speed data transmission / Recharges the battery in USB mode / Accessories are available to facilitate shooting at any time and place. Multiple patents of invention and technology are integrated in the Rollei 5S video camera.

Dispose of properly. Recycle it for a greener earth!

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The Rollei 5S video camera has the following features:

- Provides 175° ultra-wide-angel f/2.8 lens.
- Provides a special-purpose HD lens, which supports 1080P, 1080i, 960P, 720P and 480P video recording.
- Takes 16M pixels pictures in 4608 x 3456 resolution (interpolated).
- Performs 10X digital zooming.
- Performs shooting in multiple modes, such as single-key capturing, and automatically continuous capturing.
- Provides unique fast-shot feature, up to 10 photos per second.
- Synchro Shot function: take one picture during the recording process.
- Provides an independent voice recording function for long-time voice recording.
- Provides a built-in G-sensor for starting recording automatically when the speed changes.
- Provides the remote control function.
- Connects to an external TFT screen to view the video recording and playback.
- Provides better video effects in multiple video output modes (NTSC system):

– 1080P (1920x1080P) 30 frames / second
– 960P (1280x960P) 30 frames / second
– 720P (1280x720P) 30 frames / second
– 480P (848x480P) 60 frames / second
– 1080i (1920x1080i) 60 frames / second
– 960P (1280×960P) 48 frames / second
– 720P (1280x720P) 60 frames / second
– 480P (848x480P) 120 frames / second

- Detects power level of the battery and free capacity of the memory card.
- Supports external T-flash (TF) cards for storage, up to 64 GB capacity.
- Performs dynamic high-speed video recording, with light and shade environment transient response.
- Detects light in three modes to meet exposure requirements in different scenarios.
- Provides night shooting mode with contrast and ISO enhancements, improving the clearness and sharpness of night scenarios.
- Laser indicating and turn off automatically after 20 seconds.
- Provides HDMI and AV output interfaces for easy connecting to HD monitor or TV set to view record files.
- Records video programs in MOV format to facilitate playback on a PC and uploading to video-sharing websites.
- Provide high color fidelity to present more clear and natural video pictures.
- A wireless remote controller can remotely control the Rollei 5S video camera for video recording, stopping and shooting. Provides a unique code paring function to avoid interferences from other remote controllers.
- Supports playback, deleting files and other operations on the local video camera.
- Supports 1/4X, 1/2X, 2X, 4X, 8X, and 16X fast forwarding, fast rewinding, and playback.
- Supports RTC time settings and time overlapping.
- Supports USB 2.0.
- Provides a built-in microphone for high-quality recording.
- Supports connecting to an external microphone (special-purpose microphone only).
- Provides a 1/4-inch general-purpose interface to facilitate extension of accessories.
- Provides multiple types of sport accessories for sport recording.
- Provides shockproof features to withstand mild drop or knock.
- Provides an IP68 waterproof housing, withstanding a diving depth of 60 meters, and two-types of rear-cover deigns.
- Provides automatic standby for power saving, and supports automatic saving of audio and video data.

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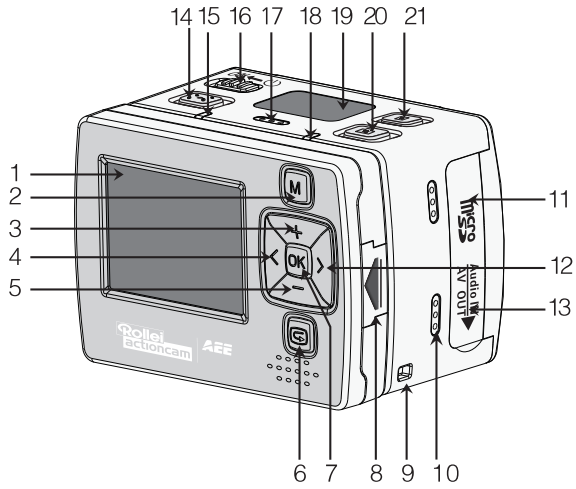
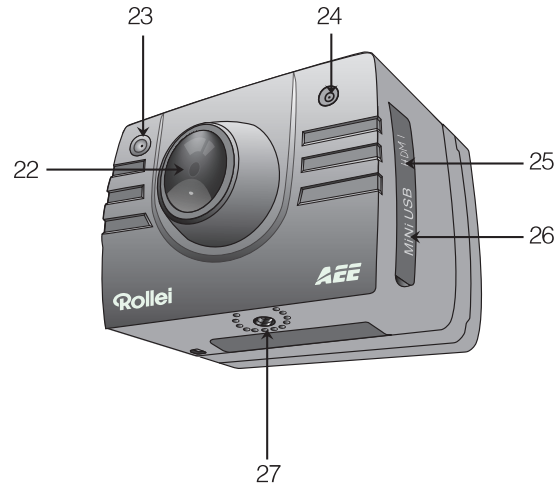




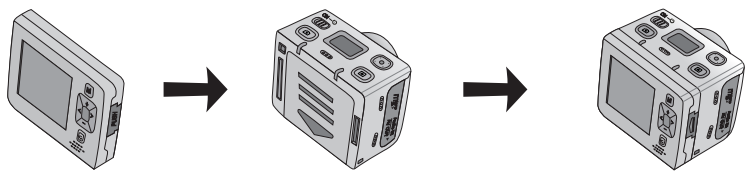
1. TFT screen	2. Menu key
3. Upward key	4. Leftward key
5. Downward key	6. Playback key
7. OK key	8. TFT screen lock knob
9. Wrist strap hole	10. Buzzer
11. SD card slot	12. Rightward key
13. AV out/Audio in	14. Record key
15. Video/Audio indicator (Green)	16. Power switch
17. Microphone	18. Operating/Recharging indicator (Red)
19. LCD segment screen	20. Shutter key
21. Stop key	22. Lens
23. Video/Photo indicator (Green)	24. Laser indicator
25. HDMI output	26. USB output interface
27. Threaded interface	

Use and Installation

1. Installing the Rollei 5S Video camera
   The Rollei 5S video camera can be hand-held or used with hand-free accessories. It can be installed at your desired place or after being equipped with a waterproof housing, placed in water for shooting underwater sceneries.

How to install the Rollei 5S video camera

(1). Assemble the TFT screen onto the video camera



TFT screen video camera Assemble the TFT screen onto the video camera

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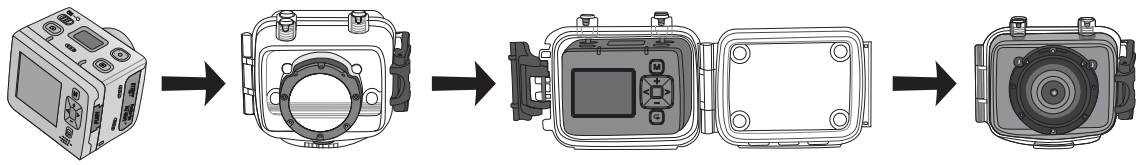
(2). Put the Rollei 5S video camera into the waterproof housing

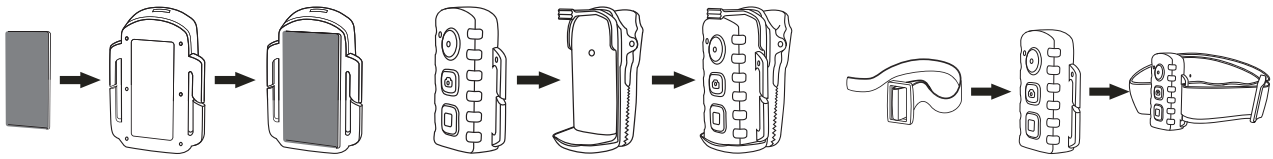


video camera | Waterproof housing | Put the video camera into the waterproof housing

** To remove the TFT screen, press the PUSH snap button and then remove it.**

2. Installing the Remote Controller
   The Rollei 5S video camera is equipped with an independent remote controller, which can be placed at different positions, depending on the accessories.

(1). Velcro (2). Back clip (3). Binding strap (provided by users)



Preparations

Before using the Rollei 5S video camera, complete the following preparations:

① Power on the Rollei 5S video camera and check the power level.

Turn the power switch to the "**ON**" position to initiate the system. After the red indicator is on, the corresponding symbols on the LCD screen turns on and then the system enters the preview state. On the LCD segment screen, you can find the following information:

A Recording mode: The current recording mode is displayed on the LCD segmen screen. The icon " ▬ " indicates the video mode, whereas the icon " 🎙 " indicates audio mode.

B Photo mode: The " 📷 " (shooting) icon is displayed on the screen. This icon blinks once for each shooting.

C Power symbol: The "⏻"(power supply) icon is displayed in the upper-right corner. When the system is working, this icon is constantly on. If this icon disappears, it indicates the Rollei 5S video camera is in power-off or standby state.

D Video recording duration: In the medium row of the LCD segmen screen displays the duration of the current recording video, for example, 005:20. In the preview state, press the "**Video**"key once to display the duration of the video recording, and press the "**Stop**"key once to hide the duration.

Note:The duration for video recording on the LCD segment screen is synchronously displayed with that on the TFT screen.

E Battery capacity indication: The"🔋"(battery capacity) icon is displayed in the bottom-left corner. This icon indicates the battery level when the video camera is powered on. The more bars the power indicator has, the more power the battery has.

Note: When the video camera is in the standby or power-off state, the power icon is not displayed.

F USB connection mode: The "⇐⊸"(USB mode) icon indicates whether the video camera has been connected to a computer. When the video camera is powered on and connected to a computer, this icon is lit with the green indicator on the left side blinking slowly. When the video camera is not connected to a computer, this icon is not displayed.

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G TF card capacity indication: The " " (TF card capacity) icon is displayed in the bottom-right corner, indicating the available space of the TF card. The more bars the power indicator has, the more free space you have. If the TF card is full, the green indicator on the left side is constantly on.

At this time, on the TFT screen, you can find the following information:

A Working mode: The " " (Video recording) symbol is displayed in the upper-left corner, indicating that the video camera is ready for video recording.

B Battery capacity: The " "(battery power) symbol is displayed in the upper-left corner, indicating the battery level.

C Video resolution: The resolution icon in the bottom-left corner indicates the current video recording resolution.

D Available storage capacity: If a memory card is available upon power-on of the video camera, the " " (free space of the memory card) icon is displayed in the bottom-right corner.

E There is no response for "**<**" and "**>**" keys in the preview state.

F When using the supplied USB cable to recharge the battery in power off , the "Working/recharging red indicator" on the top of the video camera blinks slowly. The red indicator will be constantly on upon full recharging. The recharging time lasts for about three hours.

Note:

a. Before using the video camera, check whether the battery has sufficient power. If the power level is low, use the USB cable supplied with the video camera to recharge the battery. The " Working / recharging red indicator " blinks slowly during the recharging. Upon full recharging, the red indicator is constantly on, and the " " (battery power) symbol is displayed on the TFT screen.

b. Except USB cable, it is ok to recharge the battery with any 5V/2A power adapter.

② Formatting the Micro SD card

The Micro SD card must be a high-speed card. Before video/audio recording and shooting pictures, format the Micro SD card on the Rollei 5S video camera. If a Micro SD card has been used on other devices, it should also be formatted on the Rollei 5S video camera for normal use.

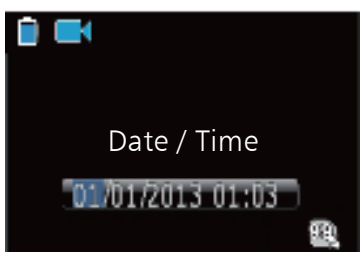
Note:

Before formatting, make sure the files in the memory and Micro SD card are not needed. Even the locked files on the video camera can be removed in formatting.

③ Setting the data and time

To set the date and time, perform the following operations:

– In the preview mode under power-on state, press the "**M**" key to display the menu interface.
– Press "**>**" to enter the " " system setup interface.
– Press "**+**"or "**–**" to display the "**01/01/2013 00:00**" menu.
– Press "**OK**" to display the "**Date / Time**" interface shown as follows.



The digits under the cursor will turn blue and adjustable:

– Press "**+**" or "**–**" to adjust the date or time.
– Press "**OK**" after adjusting the date or time.
– Press the "**M**" key to exit the interface.

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To set parameters, perform the following operations:

- In the preview mode under power-on state, press the "**M**" key to display the menu interface.
- Press the "**<**" or "**>**" key to choose a left or right option from the menu interface.
- Press the "**+**" or "**–**" key to choose an upper or lower option from the menu interface.
- After selecting an option, press "**OK**" to save settings.
- Press the "**M**" key again to save the setting and exit the interface.

Note:
After power-on, the video camera adopts all the preset settings, except for audio recording mode. You can change settings as you desire.

① Set video camera parameters

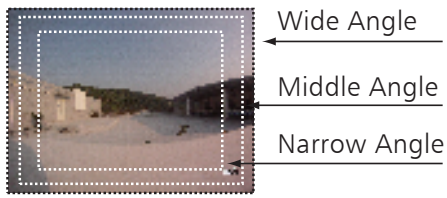
a. Exe.: Select " " (the default mode) for video recording and " " for audio only.

b. Resolution for video recording: Select the desired resolution for video recording. You can set this parameter to the 1080P, 1080i, 960P, 720P or 480P resolution.

For the PAL system	1920x1080P 25f 16:9	1920x1080I 50f 16:9	1280x960P 25f 4:3	1280x960P 50f 4:3	1280x720P 50f 16:9	1280x720P 25f 16:9	848x480P 100f 16:9	848x480P 50f 16:9
For the NTSC system	1920x1080P 30f 16:9	1920x1080I 60f 16:9	1280x960P 30f 4:3	1280x960P 48f 4:3	1280x720P 60f 16:9	1280x720P 30f 16:9	848x480P 120f 16:9	848x480P 60f 16:9

c. Angle: This parameter involves three types of views: Wide Angle ( ), Middle Angle ( ), and Narrow Angle ( ).

The following example shows the same picture in different views:



Comparison of the same scenery in different view angles

Wide Angle Middle Angle Narrow Angle

The preceding views apply only to the 1080P or 1080i HD video recording and photo modes. You can select a view angle as you desire.

d. Bit rate: This parameter can be set to High bit rate ( ) or Normal ( ). If this parameter is set to High, pictures are clearer, but the file size increases.

e. Laser SYNC video: Select " " to enable the laser indicator, or select " " (the default option) to disable the laser indicator.
If this parameter is set to " ",the laser will be turned on when starting recording and be turned off automatically in 20 seconds.

f. Pre-video: In the preview state, press the "**M**" key to enter the video recording setup interface, choose "**Pre-video**" to enable the pre-video recording function.
In this mode, press the "**Video**" key to enable the pre-recording function, that is the video recording starts without saving the data; press the Video key again, the last a few seconds of the pre-recorded video will be saved as the starting part of the video recording file.

g. Auto video: In the preview state, press the "**M**" key to enter the video recording setup interface, choose "**Auto video**", and set the count-down time before the automatic video recording. The available options are "**OFF, 5 s, 10 s,** or **20s**".

h. Display time: In the preview state, press the "**M**" key to enter the video recording setup interface, choose "**DISPLAY TIME**".

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If you set this parameter to "**ON**", the video camera automatically records the date and time during video recording and displays them in the bottom-right corner of the screen. If you set this parameter to "**OFF**", the video camera does not display the date and time during video recording. (The display time function is unavailable for video recording 1080i, 960P/48f, 960P/50f, 480P/100f and 480P/120f modes.)

Note:

a. In audio recording mode, press the "**Video**" key once to start audio recording. The audio recording duration is displayed in the upper-right corner of the TFT screen, and the green indicator blinks slowly. Press the "**Stop**" key to stop and store the currently recorded audio file. In such a situation, the green indicator is off, and the red indicator is constantly on (the operation prompt is displayed on the LCD segment screen), and the video camera restores to the state for audio recording.
b. During audio recording, the video camera responds only to the "**Stop**", "**Power off**" keys.
c. When the laser SYNC video function is enabled, the laser icon is displayed in the upper-left corner of the preview screen, indicating that the video camera is in such a shooting mode. The laser will be turned on when recording starts and be turned off automatically in 20 seconds.
d. When the pre-video and auto video functions are both enabled, press the "**Video**" key to automatically record the time in reverse counting mode; press the "**Video**" key again, the last a few seconds of the pre-recorded video will be saved as the starting part of the video recording file.

② Set camera parameters

a. Resolution: Select the required resolution for shooting. You can set this parameter to "**8M**", "**12M**" or "**16M**"(interpolated).
b. single shot : When the camera is set to the single-key shooting mode, one picture is captured when the "**Photo**" key is pressed once.
c. Fast shot: three fast-shot modes are available: 3 p/s, 6 p/s and 10 p/s (photo/second). Select the desired mode and press Photo key, the camera will take pictures for one second with prompt tones.
d. Auto cont capture: Pictures is captured at intervals of 0.5s,1s, 2s, 3s, 5s, 10s, 20s ,30s or 60s until the " **Stop** " key is released, the memory card is full, or the battery power is low.
e. Timed shooting: Select the reverse-counting time for auto-shooting (This parameter can be set to OFF, 3s, 5s, or 10s), and choose "**Timed Shooting**" and press the "**M**" key to return to the preview state. Then press the "**Photo**" key to start reverse counting timer. When the preset time is reached, the auto-shooting indicator blinks, and the camera takes a picture. To restore to other shooting modes, set "**Timed Shooting**" to "**OFF**". Otherwise, the camera maintains in timed shooting mode.
f. Display time: In the preview state, press the "**M**" key. On the setup interface, choose "**Display Time**". If you set this parameter to ON in advance, the camera automatically records the date and time during shooting and displays them in the bottom-lower corner of the photo. If you set this parameter to OFF in advance, the camera does not display the date and time during shooting. (The display time function is unavailable for photo shooting in 1080i, 960P/48f, 960P/50f, 480P/100f, and 480P/120f modes.)

Note:

a. The timed shooting function and other shooting functions cannot be simultaneously enabled. Set Timed shooting to "**OFF**" to restore to the other shooting modes. Otherwise, the camera is defaulted in timed shooting mode.
b. In single shot mode, the "**Auto cont**". capture parameter is automatically set to "**OFF**".

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③ Set system parameters

a. Warning tone: Set this parameter to "**ON**" to enable the tick tone or "**OFF**" to mute the tick tone.

Note: This parameter cannot be set to mute the prompt tones for audio recording,shooting and video recording. Instead, this parameter can only be set to mute the tone generated upon pressing a key on the TFT screen and no-operation prompt tones.

b. Status indicator: After choosing the required menu, set this parameter to "**ON**" (turning on the status indicator) or "**OFF**" (turning off the status indicator). By default, set this parameter to "**ON**".
c. OSD:Set this parameter to "**ON**" by default to display all icons on the video. If these icons are not desired, please set this parameter to "**OFF**" to remove them.
d. Loop recording: When this parameter is set to "**ON**", a recorded video file is automatically saved once by segment every 15 minutes. When this parameter is set to "**OFF**", a recorded video file is automatically saved once by segment every 30 minutes.
e. Auto to standby: Set this parameter to "**OFF**", 2 mins, 5 mins, or 10 mins. You can select the time for automatic standby. After presetting the time, the system starts counting time when there is no task or operation. When the preset time is reached, the Rollei 5S video camera disables the input/output and enters standby mode. During time counting, the system restarts counting time if any tasks or operations are carried out. During the standby period, the Rollei 5S video camera starts working if the **Video**, **Photo**, or **Stop** key is pressed. In factory setting, this parameter is set to "**OFF**".
f. TV output format: Set this parameter to NTSC or PAL. You can set the video system for output on a TV set. A black screen appears for two seconds during switchover between the NTSC and PAL systems, and this situation is normal.

Note: Before using the video camera, select NTSC or PAL depending on your region. After the video system is selected, the light source frequency also changes to avoid image blinking during video recording.

g. G-Sensor: If this parameter is set to "**ON**", the video camera starts video recording when the video camera is shaken or when the vehicle starts. If the video camera does not shake or when the vehicle stops, the video camera stops video recording in about three minutes. By default, this parameter is set to "**OFF**".
h. Contrast: Set this parameter to "**Standard**" by default. To improve the image effect during night shooting, set this parameter to "**Enhanced**".
i. ISO sensitivity: This parameter is set to Auto by default. To improve the image effect during night shooting, set this parameter to "**Low lux**".
j. Metering: Set this parameter to "**Average**" by default to ensure the general exposure effect. If the central area is dark but the surrounding area is bright, set this parameter to "**Central Area**" to improve the imaging effect in the central dark area. If the central area is bright but the surrounding area is dark, set this parameter to "**Central Spot**" to improve the imaging effect for the surrounding dark area.
k. Language: Press the "**<**" or "**>**"key to choose your desired language.
l. Date/time: You can adjust the date and time, which are overlapped in the bottom-right corner of a video or shooting file during video recording or shooting.
m. Format: Select "**Format**" to remove all the files.
n. Default: After you set this parameter, the system displays all the menu options in English. Press the M key to display menu options. Press the "**<**" or "**>**" key to display the "**System Setup**" menu. Press the "**–**" key, and choose "**Language**".Then set the system in your desired language. After resetting to the factory setting, the system displays 01/01/2013 00:00 for the time.
o. Ver: This parameter only shows the version number of the software used on the video camera.

Note:When selecting a state from a submenu, press the "**M**" key for a backward operation, and press "**OK**" for confirmation.

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1. Insert a Micro SD card into the Rollei 5S video camera

Note: Use a branded Micro SD card. We recommend Class 10 memory cards.

2. Powering on the Rollei 5S Video camera

Turn the power switch to the ON position to power on the Rollei 5S video camera. At this time, the red indicator is on, and the Rollei 5S video camera changes to the preview state.

Note:

a. If the battery power is low, the "▮" symbol is displayed on the TFT screen together with a promot.
b. If no Micro SD card is inserted, no symbol is displayed in the bottom-right corner of the TFT screen.

3. Recording a Video

In the preview state, press the "**Video**" key to start video recording. The video recording duration is displayed in the upper-right part of the TFT screen. The "Video/Audio indicator (green)" and the "Video/Photo indicator (green)" on the top of the video camera blink slowly. The recording duration is correctly displayed on the LCD segment screen. During video recording, the video camera responds only to operations for the zoom out (**–**) and zoom in (**+**) keys. Press the "**Stop**" key once to stop and save the currently recorded video file, and the video indicator (green) on the front side is off. The video camera restores to the preview state. The recording duration disappears on the LCD segment screen.

Note:

a. During video recording, turn the power switch to the "**OFF**" position to power off the video camera after saving the currently recorded file.
b. During video recording, if the battery power runs low, the system saves the currently recorded file and enters standby mode, displaying a prompt of "Low battery " on the TFT screen, until the video camera is powered off.
c. During video recording, if the Micro SD card is full, the system saves the currently recorded file. The system also displays a message "Card full" on the TFT screen, indicating that the Micro SD card is full. In addition, the duration for video recording stops on the LCD segment screen, and the system restores to the preview state.
d. Synchro Shot function: during the recording process,press the Shutter Key , the camera will take a picture without interruption. (The synchro Shot function is unavailable in 1080i, 960P/48f, 960P/50f, 480P/100f and 480P/120f mode)
e. In Loop recording mode, the system automatically saves a file every 15 minutes. (The cyclic recording function and the pre-video function cannot be simultaneously enabled.)
f. If the D23 backup battery is provided and fully recharged, the video camera can continuously record video programs for about 160 minutes and record audio programs for about 180 minutes.
g. In 480P/100f and 480P/120f modes, the video camera does not support the zooming.
h. In audio recording mode, the volume cannot be adjusted by pressing the "**+**" or "**–**" key. In playback, however, the volume can adjusted by pressing the "**+**" or "**–**" key.
i. If the video camera provides a TFT screen and is in the preview state, after using a HDMI patch cord to connect the video camera to a HD display device, you can perform basic operations for the video camera on the HD display device (These basic operations, however, cannot be performed if no TFT screen is available on the video camera).

4. Taking a Picture

Before taking a picture, perform the following operations to set the image resolution.

— Press the "**M**" key to display the setup interface.
— Press the "**>**" key to display the camera setup interface ( ).
— Press the "**+**" or "**–**" key and choose "**Image Resolution**".
— Press "**OK**" to display the resolution setup menu.

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You can set the resolution to any of the following three modes:
8M, with an image resolution of 3200 x 2400.
12M, with an image resolution of 3840 x 2880.
16M, with an image resolution of 4608 x 3456 (interpolated).
Four photo shooting modes are available for the video camera.

a. single shot (the default mode)
In the preview state, press the "**Photo**" key once to take a picture while the system generates a click tone. The green indicator on the front side of the video camera also blinks once (the shooting icon on the LCD segment screen blinks once), and the video camera restores to the preview state.

b. Fast shot
On the camera setup interface, press the "**+**" or "**–**" key and choose "**Fast shot**". Press "**OK**" to display the interface. Press the "**>**" key, and choose **3 p/s or 6p/s or 10 p/s (photo/second)**. Press "**OK**" again to exit the interface. Press the "**M**" key to exit the camera setup interface. After setting is complete, the Rollei 5S video camera continuously takes three pictures or six pictures or ten pictures when you press the Photo key once.

c. Auto cont capture
On the camera setup interface, press the "**–**" key and choose "**Auto Cont Capture**". Press "**OK**" to set the time interval for continuous shooting to OFF, 0.5s,1s, 2s, 3s, 5s, 10s, 20s ,30s or 60s . After press the "**>**" key to set the time interval. Press "OK" again to exit the intreface. Press the "**M**" key to exit the setup interface. At this time, if you press the "**Photo**" key, the Rollei 5S video camera takes a picture at each interval until you press the "**Stop**" key to cancel shooting.

d. Timed shooting: On the camera setup interface, press the "**+**" key and choose "**Timed Shooting**". Press "**OK**" to set the time in auto-shooting mode to OFF, 3 s, 5 s, or 10 s. Press the "**>**" key, and choose "**Timed Shooting**". Press "**OK**" again to save and exit the interface. Press the M key to exit the camera setup interface. After setting is complete, the Rollei 5S video camera starts reverse-counting timer when you press the Photo key once. When the preset time is reached, the Rollei 5S video camera takes a picture.

5. Recording an Audio File

To record an audio file, perform the following operations:

— Press the "**M**" key on the video camera setup interface, choose " **Exe**", and then press "**OK**" to display the video and audio options.

— Press the "**<**" or "**>**" key, and choose " " for audio only, and press "**OK**" again. The system gets ready for audio recording.

— Press the "**Video**" key to start recording an audio file. At this time, the green indicator blinks slowly. The video camera also displays the audio recording symbol on the TFT screen and starts counting time. In addition, the recording duration is correctly displayed on the LCD segment screen.

— Press the "**Stop**" key to save and stop the currently recorded audio file. At this time, the green indicator on the front side is off. The video camera restores to the preview state for audio recording. The recording duration also disappears on the LCD segment screen.

After audio recording is complete, press the "**M**" key. On the system setup interface, choose "**Exe**", press "**OK**" to display the video and audio options, and choose "**Video**". Press "**OK**" again to exit the setup interface. The video camera restores to the preview state for video recording.

Note:

a. Power on the video camera again to restore to the video recording mode. After audio recording is complete, you can also press the " " key twice to restore to the video recording mode.

b. Press and hold the Stop key for two seconds to directly change the video camera to the ready state for audio only.

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6. Playing Back a File

You can view the recorded audio/video and photo files on the Rollei 5S video camera. To view a file, perform the following operations:

— Press the "⮌"key to display the playback interface. Press the"⮌"key again to exit the playback interface.

— Select " 🎞 "(the video files interface) to view a recorded video file. Select " 📷 "(the photo files interface) to view a photo file. Select " 🎞📷 "(the mixed file interface) to view all the video, audio, and photo files.

If there are many files, it takes a few seconds time for the video camera to display the preview interface.

1) Playing a Video File

To play a video file, perform the following operations: On the video file interface" 🎞 ", press the "**+**", "**–**", "**>**", or "**<**" key to display all the files displayed in thumbnails. Select the required file, and press "**OK**" to play it.

When playing a video file, you can use the following keys:

Key	Description	Key	Description
+	Turns up the sound volume.	–	Turns down the sound volume.
<	Plays a file in slow rewind mode when you press and hold this key for a long time. Plays a file in fast rewind mode when you press and hold this key for a short time.	>	Plays a file in slow forward mode when you press and hold this key for a long time. Plays a file in fast forward mode when you press and hold this key for a short time.time.
⮌	Resets and plays a file from the beginning when your press this key. Returns to the playback interface when you press this key again.	OK	Starts or suspends playing a video file when you press this key.

Note: You can set the fast forward and rewind functions to a 2-, 4-, 8- or 16-X speed. You can also set the slow forward and rewind functions to a 1/2- or 1/4-X speed. During the slow or fast play, you can press OK to resume normal playing.

2) Viewing a Photo File

To view a photo file, perform the following operations: On the photo file interface " 📷 ", press the "**+**", "**–**", "**>**", or "**<**" key to display all the files displayed in thumbnails. Select the required file, and press "**OK**" to view it.

When viewing a photo file, you can use the following keys:

Key	Description	Key	Description
+	Zooms in a picture. In zoom-in mode, locks a picture and moves it downwards when you press OK.	–	Zooms out a picture. In zoom-in mode, locks a picture and moves it upwards when you press OK.
<	Moves a picture rightwards.	>	Moves a picture leftwards.
⮌	Resets and plays a file from the beginning when your press this key. Returns to the playback interface when you press this key again.	OK	In zoom-in mode, switches between the "**+**" and "**–**" keys.

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3) Playing an Audio File

To play an audio file, perform the following operations: On the mixed file interface ( ), press the "**>**" or "**<**" key to display all the audio files in " " mode. Select the required file, and press "**OK**" to play it.

When playing an audio file, you can use the following keys:

Key	Description	Key	Description
+	Turns up the sound volume.	–	Turns down the sound volume.
<	No function is provided.	>	No function is provided.
	Resets and plays a file from the beginning when your press this key. Returns to the playback interface when you press this key again.	OK	Starts or suspends playing an audio file when you press this key.

Note: The fast forward and rewind functions are not provided for playing an audio file.

7. Deleting, Protecting, and Automatically Playing a File

In playback mode, you can press the "**M**" key to delete, protect, and automatically play a file.

1) Deleting a File

On the video, photo, or mixed file interface, you can delete a video file, a photo file, or all the files. To delete a file, perform the following operations: Select a file to be deleted. Press the "**M**" key to display the operation interface. The following options are displayed on the operation interface.

- Delete single: deletes a picture. Press OK to display the options for deletion. Select "**√**"or "**×**"based on the displayed message. An option marked with "**√**" will be deleted.
- Delete all: deletes all the unprotected pictures.

2) Protecting a File

On the video, photo, or mixed file interface, you can protect a video file, a photo file, or all the files.

To protect a file, perform the following operations: Select a file to be protected. Press the "**M**" key to display the operation interface. The following options are displayed on the operation interface.

- Protect single: protects a file.
  Press "**OK**" to display the options for protection. After you select a file to be protected and press "**OK**", the system automatically returns to the playback interface.
- Protect all: protects all the files.
  Press "**OK**" to display the options for protection. After you select all the options to be protected and press "**OK**" , the system automatically returns to the playback interface.
- Unlock single: unlocks a protected file.
  Press "**OK**" to display the options for protection. After you select a file to be unlocked and press "**OK**", the system automatically returns to the playback interface.
- Unlock all: unlocks all the protected files.
  Press "**OK**" to display the options for protection. After you select all the files to be unlocked and press "**OK**", the system automatically returns to the playback interface.

Note:

For a protected file, the " " icon in gray is displayed in the bottom-left corner of the preview interface. After being unlocked, a file is unprotected, and the" "icon in blue is displayed in the bottom-left corner of the preview interface. A protected file cannot be deleted, but can be deleted by a formatting operation.

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3) Automatically Playing a File

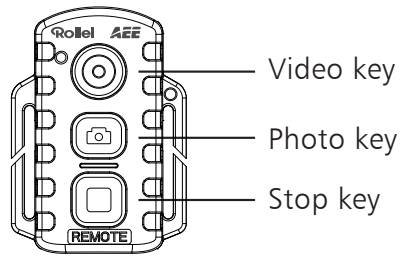
In the photo file interface, the Rollei 5S video camera can automatically play photos in sequence every five seconds.

To automatically play a file, perform the following operations: Enable the playback function, and press "**OK**".

8. Using a Remote Controller

The Rollei 5S video camera is equipped with a remote controller, which is used for control of video recording and shooting. After you pressing the corresponding key, the red indicator on the remote controller blinks once. The following figure shows the functional keys of the remote controller.

To match the functions of the remote controller with those of the Rollei 5S video camera one to one, perform the following operations for code pairing before using the remote controller.



— Press the "**Video**" key on the Rollei 5S video camera in power-off state mode.
— Turn the power switch to the **ON** position.
— Release the "**Video**" key. Then hold the "**Video**" and "**Stop**" keys on the remote controller once within five seconds.

After successful code pairing, the Rollei 5S video camera generates the tick tone twice.

Note:

a. To check whether code pairing is successful, use a wireless remote controller to control the Rollei 5S video camera. The control functions involve starting/stopping video recording, shooting, waking-up in standby mode. For each operation, the Rollei 5S video camera generates a tick tone, indicating that the operation takes effect. When you use the remote controller to stop video recording, the camera generates a tick tone twice.
b. The remote controller must be used within a distance of up to 10 meters in an obstacle-free and horizontal angle.
c. In standby mode, you can press the "**Video**", "**Photo**" or "**Stop**" key on the remote controller to start the Rollei 5S video camera.

9. Starting the Rollei 5S Video camera in Standby Mode

The Rollei 5S video camera enters preview mode after power-on. If no task or operation is carried out within the preset standby time, the system automatically enters the standby mode to save power. To wake up the camera from standby state, you can press the "**Video**", "**Photo**" or "**Stop**" key, or press a key on the remote controller.

Note:

a. In the standby state, the system does not start when you press any key on the TFT screen.
b. In the standby state, no information is displayed on the LCD segment screen.

10. Connecting the AV Output

In the preview state, connect the Rollei 5S video camera to a display device using an AV cable. After being connected to a display device, the Rollei 5S video camera can still implement all its functions.

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11. Connecting the HDMI Output

In the preview state, connect the Rollei 5S video camera to an HD display device using an HDMI patch cord. After being connected to the HD display device, the Rollei 5S video camera can implement all its functions.

Note:
Incorrect removal of the HDMI patch cord may result in exceptions on the Rollei 5S video camera. After being restarted, the Rollei 5S video camera can restore to the normal state.

12. Prompt Tones upon Operations

The Rollei 5S video camera can generate various prompt tones upon operations.

a. In normal cases, the Rollei 5S video camera generates a tick tone, indicating that the operation is valid when you press the "**Video**" or "**Photo**" key once.
b. Upon stopping video recording, the Rollei 5S video camera generates a tick tone twice, indicating that the video recording operation stops.
c. If code pairing is successful upon a power-on operation, the Rollei 5S video camera generates a tick tone twice, indicating that the code pairing operation is successful.
d. During video recording, the Rollei 5S video camera does not generate a tick tone when you press the "**Photo**" key.
e. When any operations are performed on the TFT screen, you can enable or disable the function for generating a tone. Specifically, press the "**M**" key when the Rollei 5S video camera is in the preview state. Then press the "**<**" or "**>**" key to display the "**Setup**" menu. Press the "**+**" or "**–**" key, and select "**Prompt tone**".
f. During video recording, the Rollei 5S video camera generates a tick tone twice, indicating that the video recording operation stops when you press the "**Stop**" key on the remote controller once.
g. During video recording, no prompt tone is generated by the Rollei 5S video camera or by the speaker on the TFT screen when you press the "**Photo**" key on the remote controller once.
h. In the standby state, the Rollei 5S video camera generates a tick tone twice, indicating that the main system starts when you press a key on the remote controller.

13. Turning On/Off the TFT Screen

a. After the Rollei 5S video camera is powered on, you can press and hold the "**Photo**" key for three seconds to turn on or off the TFT screen.
b. The "**Photo**" key on the remote controller does not provide the function for turning on or off the TFT screen.

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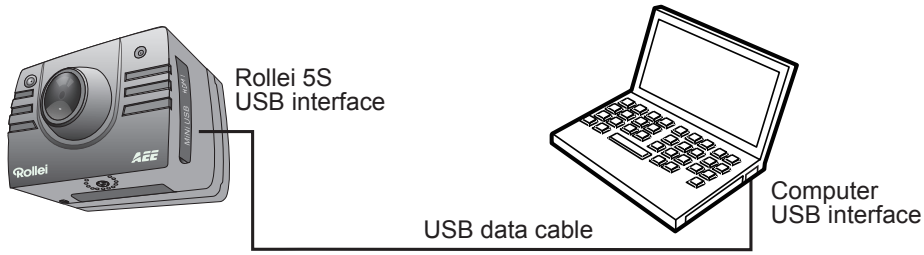
1. Connecting a USB Data Cable

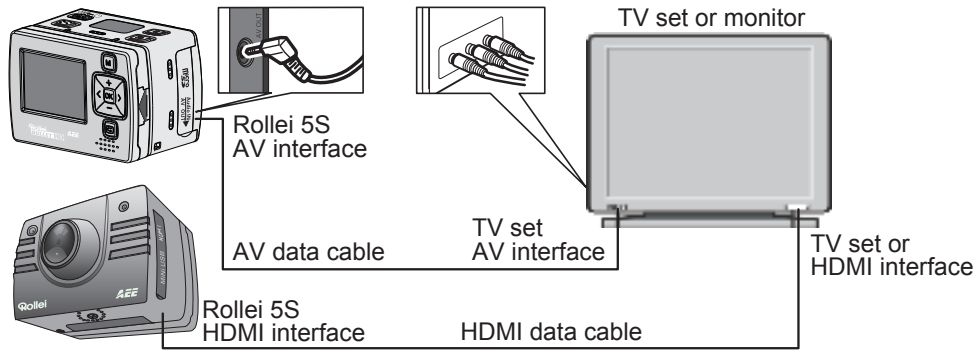
After video recording is complete, you can copy the recorded images to a computer for play by using a USB data cable. You can also remove the Micro SD card from the Rollei 5S video camera and access the image data by using a sensor. The Media Player software is preferred for playing a file.



Note:

a. Before removing the USB data cable, power off the Rollei 5S video camera.
b. When the power switch is in the "**OFF**" position, you can recharge the battery on the Rollei 5S video camera. At this time, the red indicator blinks slowly.
c. When the power switch is in the "**ON**" position, you can copy the recorded files from the Rollei 5S video camera to the computer.

2. Connecting with an HDMI Cable or an AV Cable,You can play recorded files on a TV set or a monitor that has a HD port, using an HDMI cable to connect the Rollei 5S video camera to the TV set or monitor.



Note:

a. After connecting to a monitor by HDMI cable, select the proper input source for the Rollei 5S video camera to play files.
b. When using an AV cable, connect the terminals of the AV data cable to the ports in the same color on the TV set or monitor. Ensure that the TV set or monitor is properly grounded.
c. Adjust the parameter settings of the monitor to achieve the optimal display effect.

Installation and Use of a Backup Battery (D23)

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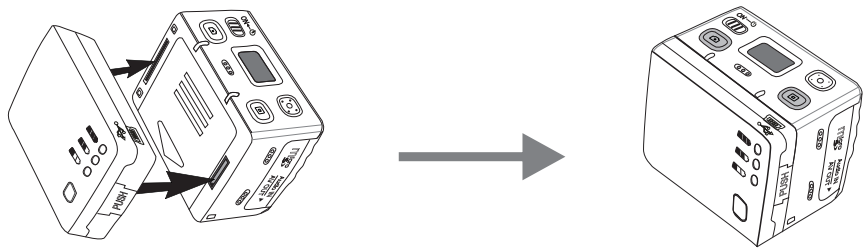
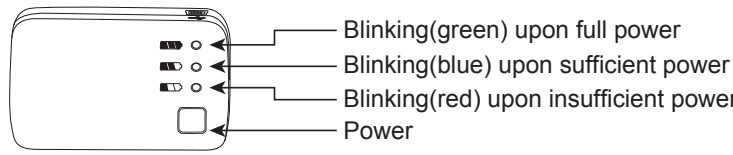
1. Installing a Battery

You can install the D23 battery onto the Rollei 5S video camera without setting any parameters for power supply, as shown in the following figure:



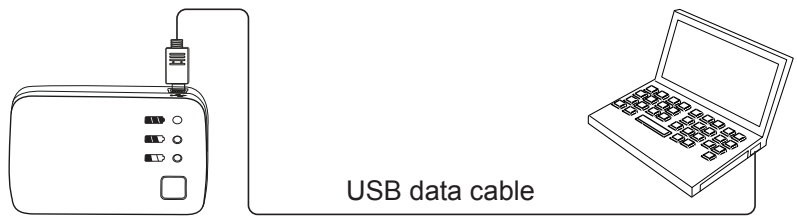
2. Checking the Battery Power

You can gently press the Power key to check the power of the backup battery. The LED indicator on the battery blinks for three seconds in different colors to show the current power.



3. Recharging the Battery

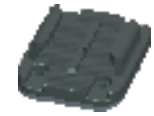
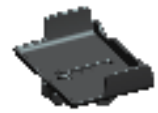
Connect the USB charging interface of D23 back-up battery to a computer via the supplied USB cable to charge the battery. This backup battery has automatic protection against overcharging and short circuit. The red indicator light keeps flashing when charging the battery and the green indicator light is on when the battery is fully charged. (The battery can be charged for 500 times.)



Note:

a. Do not remove the backup battery randomly.
b. If the Rollei 5S video camera is not used for a long time, recharge the battery every six months to extend the battery life.
c. It takes about 1.5 hours max to fully charge this backup battery by the USB cable.

Package List

Rollei 5S telecamera	TFT monitor	Remote controller	Dedicated waterproof housing	Standard battery	Flat-mounted assembly	Flat-surface accessory
						
L-shaped helmet accessory	Head strap	Self shoot	Back Clip	Bracket	Backup battery	Micro SD card
						
AV output cable	USB cable	Cloth bag	strap	CD ROM	User's Manual	

Technical Specifications

Technical specifications of the Rollei 5S video camera

Option	Specifications	Option	Specifications
View angle	175°	Format for video recording (in PAL system)	1080P 1920 x 1080P @25fps 1080i 1920 x 1080i @50fps 960P 1280 x 960P @25fps 960P 1280 x 960P @50fps 720P 1280 x 720P @50fps 720P 1280 x 720P @25fps 480P 848 x 480P @100fps 480P 848 x 480P @50fps
Number of pixels	14 million CMOS sensor (4384 x 3288)		
Battery	1000 mAh Li-battery + 1100 mAh backup battery		
Power consumption	750 mA @ 3.7 V (Max.)		
Continuous duration for video recording	160 Minutes max. (Li-battery+Backup Battery)		
Continuous duration for audio recording	About 180 Minutes. (Li-battery+Backup Battery)	Video recording	Recording video files in MOV format
Standby duration	100 hours (Max.)	Audio recording	Recording audio files in WAV format
Recharging duration	6.5 hours (Max.) (Li-battery+Backup Battery)	Shooting	8M, 12M, 16M (interpolated) JPEG images available for shooting resolution
Capacity of the Micro SD card	Up to 64 GB secure digital high capacity (SDHC)	USB interface	USB2.0
Operating humidity	15%–85% RH	Distance for remote control	10 meter (Max.)
Storage temperature	-20°C–+60°C	Operating system	Windows XP, Vista or Above, Windows 7, or Mac OS
Operating temperature	-10°C–+50°C	Weight	80 g (without the screen) 105 g (with the screen)
File storage	30 minutes per segment in normal cases 15 minutes per segment in cyclic recording mode	Dimensions (W x H x D)	60 mm x 51 mm x 42 mm

Note:
Specifications are subject to minor change with upgrade and update. Please base on real object.

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The waterproof housing is a precision component. When using the waterproof housing, adhere to the following precautions:

1. Do not randomly remove or change the O-ring, key, and lens cover. Otherwise, the waterproof performance deteriorates.
2. Do not put the waterproof housing in a place where corrosive gases are easily generated due to strong acid or alkali. Do not make the waterproof housing in contact with chemical or corrosive objects, such as strong acid or alkali.
3. Do not put the waterproof housing in a place where temperature is high (50°C) or low (-10°C) for a long time to avoid deformation.
4. Do not expose the Rollei 5S video camera to sunshine for a long time to avoid deterioration of the waterproof performance.
5. Before use, ensure that the O-ring is intact, the seal is litter-free, the housing is fully sealed, and the buckle is tight.
6. After using the housing in sea water, wash it using fresh water, clean it, and dry it in a cool place.

Precautions for the 3M Dual-side Sponge Rubber

When using the 3M dual-side sponge rubber, adhere to the following precautions:

1. Before fixing the 3M dual-side sponge rubber, select a curved or flat surface to ensure proper contact between the sponge rubber and the curved or flat surface.
2. Before using the 3M dual-side sponge rubber, clean the surface where the sponge rubber is attached.
3. Before attaching the 3M dual-side sponge rubber, heat the surface of the sponge rubber using an electric blower, especially in a place where temperature is lower than -20°C.

Notice

When using the Rollei 5S video camera, pay attention to the following notice information:

1. During continuous use, the body temperature of the Rollei 5S video camera increases. This situation is normal.
2. If the Rollei 5S video camera is not used for a long time, remove and maintain the battery properly, and recharge the battery every six months to ensure the battery performance.
3. During recording, enabling the digital zooming function may affect the image quality.
4. Shooting view angles are slightly different in different working modes of the video camera.
5. If a video file is large, a computer or a special-purpose player is preferred for smooth play.